Updated Apr. 14, 2026

Cobi, College Board–Endorsed AP CS · AI-Powered Curriculum for K–12

Professional Development & Curriculum

2026-27 Catalog

College Board Endorsed AP® CSA, AP® CS Principles Provider

Aligned with The Computer Science Teacher Association (CSTA) Standards

gocobi.com | hello@gocobi.com

About

Cobi (previously Popfizz Computer Science) provides a comprehensive learning platform and online professional development courses for new and experienced teachers.

Designed in collaboration with expert educators, Cobi offers a range of online student courses, self-paced professional development courses, and customized coding bootcamps to meet your District's goals and visions.

Cobi's holistic approach to teaching and learning is preparing students with 21st-century skills, and teachers with the professional development they need for beginner and next-level computer science training.

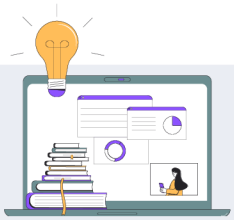
Our courses are embraced by thousands of students and educators in classrooms across the United States and beyond.

Professional Development

Aligned with Your District's Vision and Goals

Cobi offers a range of professional development courses for CS teachers. Step-by-step tutorials, activity ideas, teaching tips, and expert code reviews will help you boost your knowledge and skills in no time.

Support



Self-paced

30+ hours

- Customizable for District needs
- Get 1:1 assistance when you need help.
- Get feedback on your code.
- Join the hundreds of other educators improving their CS knowledge and coding skills.

Courses offered

Enjoy year-long access to all PD courses with just one subscription.

AP Computer Science

- AP CSA (Updated to meet the new CED)
- AP CS Principles (Python)
- AP CS Principles (Roblox)

AI & Programming

- Intro to AI with Python
- Intro to Computer Science with JavaScript
- Cybersecurity

Physical Computing

- Intro to Physical Computing with Microbit
- Intro to Physical AI with Raspberry Pi and Python

Certification & Exam Prep

- FTCE CS Exam
- Praxis CS Exam (5652)
- CompTIA IT Fundamentals

PD Courses

AP COMPUTER SCIENCE PD

Advanced Placement Computer Science A (45 hrs)

Educators will prepare to teach AP CS A by building confidence and mastery in Java programming through step-by-step tutorials, hands-on labs, and expert code reviews. Upon completion, educators will be able to introduce Java concepts, identify common student errors and provide actionable student feedback. The course has been updated to meet the latest CED changes.

This course is endorsed by the College Board.

Advanced Placement Computer Science Principles - Python (30 hrs)

This course is created around the Big Ideas, this course prepares educators to teach AP CS Principles by developing knowledge and foundational concepts of computing and technology (Updated to meet the latest CED). You'll learn Python to develop several projects.

This course is endorsed by the College Board.

Advanced Placement Computer Science Principles - Roblox (30 hrs)

This course is created around the Big Ideas, this course prepares educators to teach AP CS Principles by developing knowledge and foundational concepts of computing and technology (Updated to meet the latest CED). You'll learn Roblox/Lua to develop several projects.

This course is endorsed by the College Board.

CERTIFICATION EXAM PREP

The certification exam prep courses help educators build skills and knowledge to take the exams with confidence. Step-by-step tutorials, hands-on coding assignments, and hundreds of exercise questions provide in-depth practice.

- For Florida Teachers: **FTCE Computer Science Exam** Prep Course - 45 hrs
- **CompTIA IT Fundamentals** Certification Prep Course - 30 hrs
- **Praxis Computer Science Exam** (5652) - 30 hrs

AI & PROGRAMMING

Intro to AI with Python (30 hrs)

This course teaches basic programming and problem-solving skills using Python programming language. Upon completion, educators will be able to introduce Python concepts, identify common student errors and provide actionable feedback.

Intro to Computer Science with JavaScript (30 hrs)

This course introduces a range of computer science topics. Explore the world of the web, artificial intelligence, digital graphics, and game development with PBL approach.

Teaching Cybersecurity (30 hrs)

Explore cybersecurity career paths, common cyber attacks, and cybersecurity in the news. Learn about online and personal safety where they explore cyberbullying, personally identifiable information, social media security risks, and secure passwords. Finally, immerse yourself in applied cybersecurity and learn Unix/Linux commands for forensic investigations.

PHYSICAL COMPUTING

Intro to Physical Computing with Microbit (15 hrs)

This course prepares educators to teach the basics of physical computing and coding through multiple projects using Microbit, Make Code, and Python programming language. Upon completion of the course, educators will be able to utilize the various features of Microbit and program it using concepts such as data structure, iteration, and conditional statements.

Intro to Physical AI with Raspberry Pi & Python (30 hrs)

Learn how to teach physical computing using Python programming language and Raspberry Pi. This course prepares educators to introduce Python concepts to the classroom, help students create range of projects, and troubleshoot common errors.

To register, visit www.gocobi.com/pd.

Student Curriculum

Rigor + Engagement

Cobi provides a comprehensive solution, offering high-quality computer science courses. These courses are aligned with CSTA standards and College Boards' AP Audit.

Improve your STEM/CTE classroom and student retention with step-by-step tutorials, videos, and hands-on projects that increase knowledge and skills in exciting and engaging ways. Try out Cobi. Experience how simple it is to get started.

CS Pathways

The curriculum pathway for students is designed to provide a comprehensive education that covers both breadth and depth in various CS topics.

Basics	Intermediate	Advanced
• Python Turtle Graphics • Intro to Physical Computing with Micro:Bit	• Intro to CS with Python & AI • Intro to CS with JavaScript • Cybersecurity • Intro to Physical AI with Raspberry Pi & Python	• AP CS A Java • AP CS Principles (Python) • AP CS Principles (Roblox)

Curriculum Offered

- Cybersecurity (1 semester)
- CompTIA IT Fundamentals Certification Prep (1 semester)
- Intro to Physical Computing with Micro:bit (1 semester)
- Intro to Physical AI with Raspberry Pi & Python (1 semester – yearlong)
- Intro to AI with Python (1 semester – yearlong)
- Intro to CS with JavaScript (1 semester)
- AP CS Principles in Python (yearlong)
- AP CS Principles in Roblox (yearlong)
- AP CS A Java (yearlong)

Curriculum

Intro to Artificial Intelligence (*1 Semester or Yearlong*)

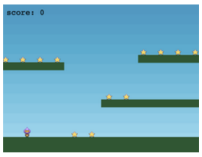
This is a beginner-friendly course designed to help students explore the world of AI through hands-on activities, real-world examples, and creative problem-solving. No prior coding experience is required—just curiosity and a willingness to learn how technology is shaping our future!

Intro to Artificial Intelligence with Python (*1 Semester or Yearlong*)

In this course, students learn programming basics to create simple programs and games, then apply their skills in a final project—building interactive games and experimenting with AI-powered features.

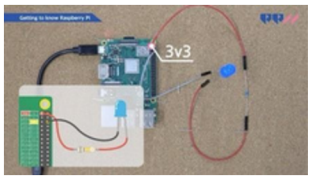
Intro to Computer Science with JavaScript (*1 Semester or Yearlong*)

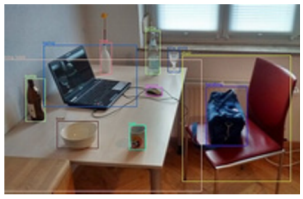
This course introduces students to computer science through the web, artificial intelligence, digital graphics, and game development.



Intro to Physical AI with Raspberry Pi & Python (1 Semester or Yearlong)

Text-based coding can feel intimidating, but not when you're having fun with Raspberry Pi! In this course, students learn Python step by step to control hardware, wire inputs and outputs, and build exciting projects from computer games and personal alarm systems to AI-powered detectors using YOLO.

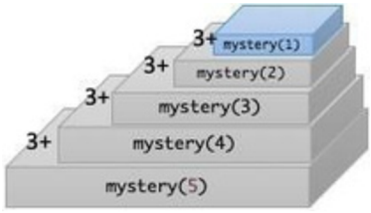


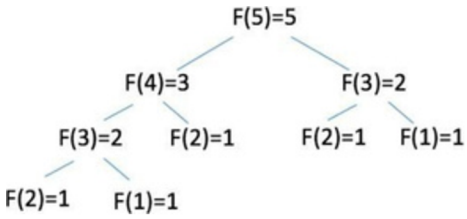


AP Computer Science A

AP Computer Science A is an introductory college-level computer science course. Learn the fundamentals of Java, create programs, algorithms, and prepare for the AP CS-A Exam.

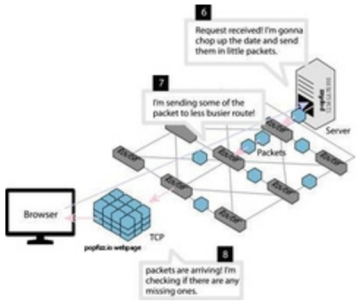
This curriculum is College Board endorsed.

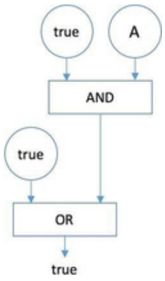


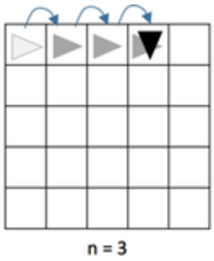


AP Computer Science Principles in Python

Cobi Computer Science's AP CS Principles course introduces foundational concepts of computing and technology with project-based learning at the core. Students learn through step-by-step tutorials, discover real-world connections, and use Python to create series of projects ranging from a simple calculator to data visualization charts. Prepare for the AP Computer Science Principles exam and the Create Task. **This curriculum is College Board endorsed.**

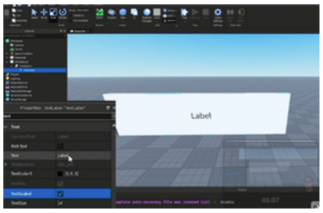






AP Computer Science Principles in Roblox

Teach AP CS Principles through a platform your students already love. This course prepares educators to deliver the full AP CSP curriculum using Roblox Studio and Lua, with step-by-step project guides that map directly to the Big Ideas and Create Performance Task. Ideal for boosting enrollment and engagement in your CS program. **This curriculum is College Board endorsed.**



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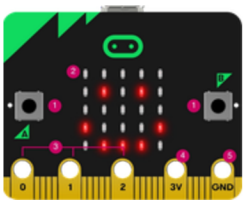
Introduction to Physical Computing with micro:bit (1 Semester)

Perfect for blended learning, this introductory course explores how programs interact with the world with physical computing. Students will begin writing and running code using MakeCode, then progress to Python to program their micro:bit. With a series of final MicroPython projects, students will discover creative ways to express themselves and solve real world problems.

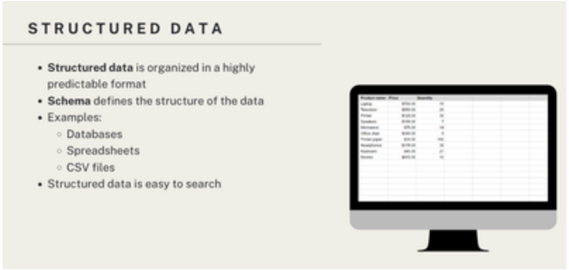


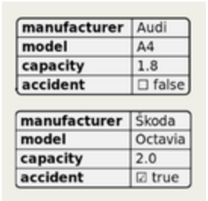
Cybersecurity (1 Semester)

The course explores cybersecurity career paths, common cyber attacks, and cybersecurity in the news. Students will also learn about online and personal safety where they explore cyberbullying, personally identifiable information, and secure passwords. Finally, students will immerse themselves in applied cybersecurity and be introduced to Unix/Linux and forensic investigations.

CompTIA IT Fundamentals Certification Prep (1 Semester)

This one-semester course is designed to guide students toward achieving the CompTIA IT Fundamentals cybersecurity certification. It provides a comprehensive foundation in essential IT concepts and practices, setting the stage for future specialization in cybersecurity.





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model	A4
capacity	1.8
accident	☐ false

manufacturer	Škoda
model	Octavia
capacity	2.0
accident	☑ true

Dedicated Support

Our goal is to help educators master computer science topics. With ongoing assistance, you'll be prepared to teach with confidence and excellence.

Our support includes:

1:1 Chat Support: Communicate with CS experts in realtime when you have any questions or need assistance

Code Reviews: To help improve code quality, code review is provided for each project submitted through our hands-on courses

Regular Check-ins: Stay on track with weekly check-ins and webinars that work with your schedule

Success for Students and Educators

All Cobi PD courses are also available as online student courses in full-year, semester, and mini-course formats.

Features

- Wide-range of comprehensive assignments and exams
- Auto-grading technology and code feedback
- Progress indicators that show where students struggle and excel
- Teacher resources and class materials such as lesson plans, solution guides, slides, handouts, and more
- Google Classroom, Canvas, Moodle, Schoology integration
- Custom content creator lets you add your own materials, quizzes, and code projects.
- Student code portfolio

Interested in our student curriculum? hello@gocobi.com

Teach & Learn CS with Excellence.

For more information, contact hello@gocobi.com

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